



Custom Parametric Families Built for Complex Building Components

Precision BIM Object Creation for Architects & BIM Managers – by Tejjy Inc.

8(A) | DBE | WOSB CERTIFIED

Generic Families Fail Complex Projects

Insufficient Geometry & Metadata

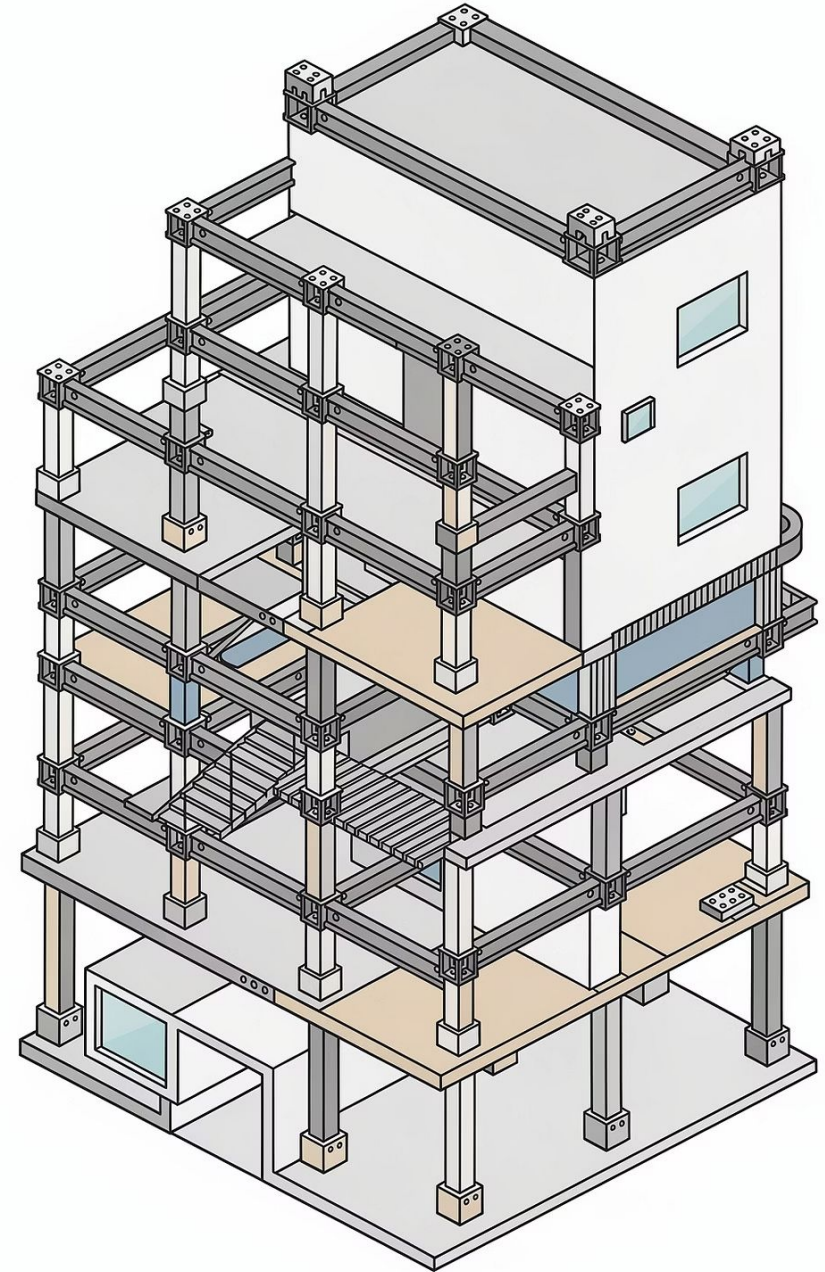
Standard Revit libraries lack the geometry, parameters, and metadata needed for complex facades, structural connections, and MEP assemblies.

Wasted BIM Coordination Time

Rebuilding components from scratch on every project wastes weeks of BIM coordination time – time your team cannot afford.

Costly Clashes & Rework

Mismatched families cause clash detection failures and expensive rework during construction when it matters most.



What Are Parametric Families?



Parametric families are intelligent, data-rich BIM objects whose geometry, dimensions, and properties adapt automatically to project-specific parameters – eliminating manual rework with every design change.

Three Family Types

- **System Families:** Walls, floors, roofs – built into Revit
- **Loadable Families:** Custom components tailored to your project
- **In-Place Families:** Unique, site-specific one-off elements

Cross-Platform File Formats

Delivered in **.rvt**, **.rte**, **.ifc**, and **.dwg** formats for seamless interoperability across all major platforms, covering LOD 100 to 500.

Complex Building Components Tejji Builds



Structural

- Steel sections & base plates
- Gusset plates & trusses
- Beam connections



Architectural

- Custom facades & curtain walls
- Stairs & railings
- Casework components



MEP / FP

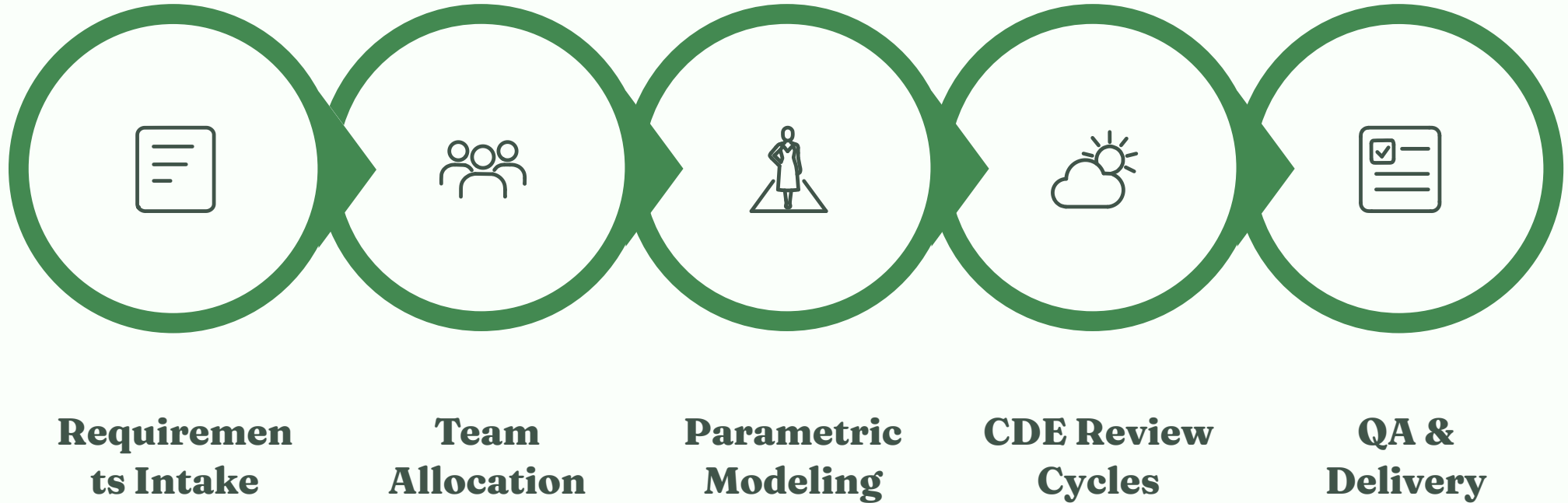
- AHUs & fan coil units
- Fire dampers & HVAC duct hangers
- Plumbing fixtures



Equipment & Systems

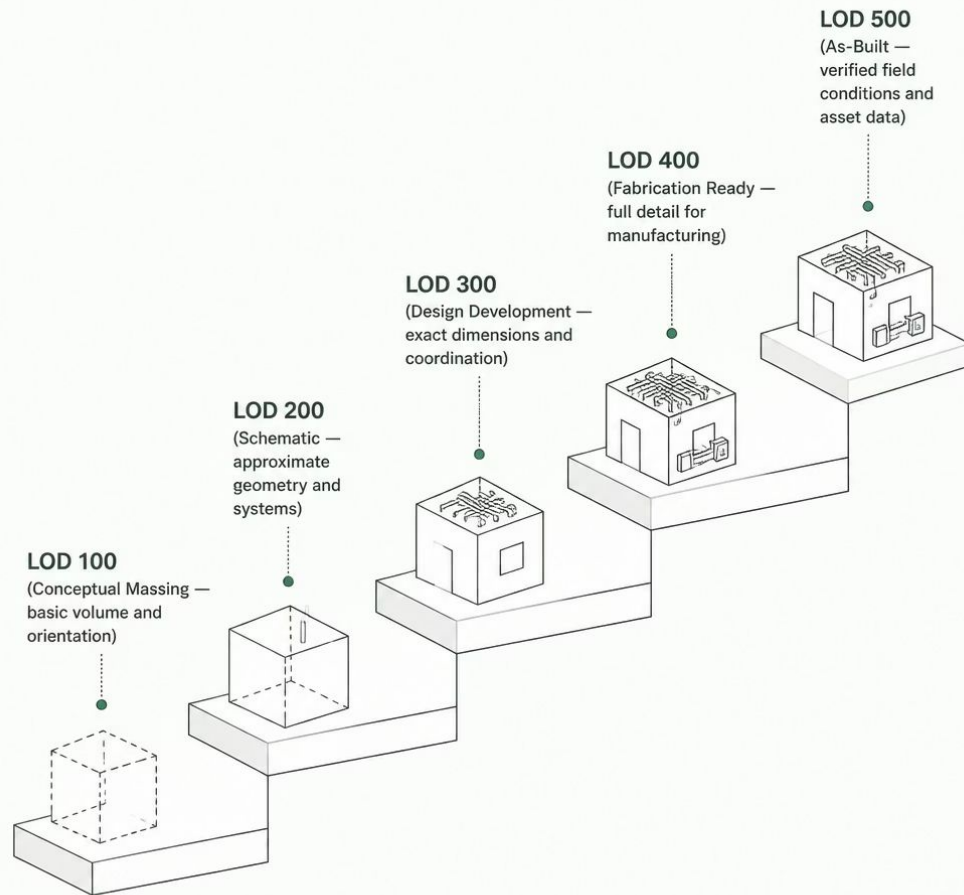
- CCTV & integrated panel systems
- Smart home hubs
- AV systems

Tejy's Parametric Family Creation Process



From initial spec sheets to a validated, reusable family library — **Tejy's structured five-step workflow ensures every custom family meets project standards and is ready for immediate BIM coordination.**

LOD 100–500: Right Detail at Every Stage



Tejy models families to the **exact LOD required** at each project phase – from early conceptual massing all the way through to fabrication-ready and as-built documentation.

6D BIM Asset Management

CoBie and manufacturer data are embedded directly into families, enabling full **6D BIM asset management** strategies for facility operations and lifecycle planning.

Optimized File Performance

Lightweight file sizes are maintained through simplified geometries, federated BIM models, and third-party plugins – keeping your project files lean and performant throughout the entire project lifecycle.

Clash-Free Coordination Across Disciplines

Navisworks & BIM 360 Ready

Every parametric family is fully optimized for clash detection workflows in Navisworks and Autodesk BIM 360.

Multi-Software Compatibility

Revit content is convertible to AutoCAD, 3DS Max, ArchiCAD, and SketchUp – supporting seamless multi-discipline coordination.

Type Catalogs for Variants

Families with 5+ variations receive dedicated type catalogs – keeping project file sizes lean and well-organized.

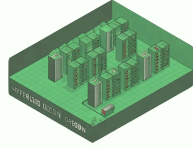


Real Projects. Real Complexity.



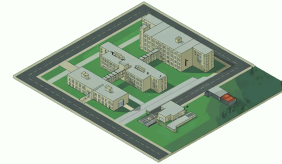
Powerplant — Wisconsin

Cable bus bar BIM modeling & coordination for a high-voltage industrial facility.



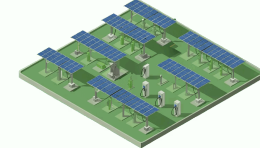
Hyperscale Data Center — Oregon

BIM coordination & MEP model updates across complex mechanical systems at scale.



Reentry Center — Maryland

Architectural BIM for a correctional facility with custom structural families throughout.



Solar EV Charging Campus — Maryland

Scan-to-BIM & utility mapping with custom infrastructure families for a renewable energy campus.

Why BIM Managers Choose Tejjy



20 Years of VDC Experience

2,500+ projects delivered with a BIM-first approach. Our workforce is proficient in custom Revit family package creation across all building types.



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Qualified and experienced in federal, commercial, and institutional projects. Trusted by agencies and private developers alike.



AIA, NBIMS, GSA, SCA Standards

Strict adherence to national and international BIM standards ensures data integrity, interoperability, and sustainability on every engagement.

Time Savings & Project Outcomes

20+

Years VDC Experience

Decades of parametric family expertise across all building sectors.

→ **Faster Design Cycles**

Automated parameter adjustments eliminate manual recalculation on every revision – engineers complete designs faster than ever before.

2,500+

Projects Delivered

A proven portfolio spanning federal, commercial, and infrastructure projects.

→ **Reduced Field Rework**

Clash-optimized families prevent costly conflicts during construction – saving budget and schedule when it counts most.

LOD 500

Max Detail Level

Families modeled from conceptual massing to full fabrication-ready precision.

→ **Reusable Library Assets**

Custom families become long-term intellectual property – fully redeployable across future projects to compound your ROI.

Families Delivered Across All Disciplines



Architectural

Doors, windows,
curtain walls,
ceilings, stairs,
railings, casework

Structural

Columns, beams,
connections,
trusses, steel
sections

MEP / FP

HVAC, plumbing,
electrical, fire
suppression
components

Specialty

Furniture, building products, equipment, smart building systems

Let's Build Your Custom Family Library.

Partner with Tejy Inc. to create precision parametric families that power your most complex BIM projects – on time, on standard, and ready for coordination.

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Thank you — Tejy Inc. | 8(a) | DBE | WOSB Certified

